FIG. 1

10

23

24

22

FIG. 2

23

24

FIG. 3

FIG. 4

28

54

58

S
N

57

S
56
N

60

FIG. 5

10

14

32

16

24

22

FIG. 6

FIG. 7

VALVE

CON 4 OUTPUT A
GND

CON 5 OUTPUT B
GND

CON 2 +5V
SIGNAL
GND

HALL-EFFECT POSITION SENSOR

ON-BOARD ELECTRONICS

SOLENOID A DRIVER WITH CURRENT FEEDBACK

SOLENOID A

SOLENOID B

SOLENOID B DRIVER WITH CURRENT FEEDBACK

SENSOR GAIN AND OFFSET

TO ALL BLOCKS

BIAS POWER SUPPLY

ANALOG INPUT 4
ANALOG 2INPUT

ANALOG OUTPUT 2
ANALOG INPUT 5

GAIN A
GAIN B

20

INPUT RANGES AND INPUT POLARITY

ON-BOARD MICROCONTROLLER

ANALOG OUTPUT
ANALOG +1V
ANALOG INPUT 2
ANALOG INPUT 1

ANALOG INPUT 3

RANGE POLARITY

REVERSE POLARITY PROTECTION

CON 1

CURRENT MONITORING AND ALARM OUTPUT

RS-232 PORT
TxD GND RxD    P1
GND

ENABLE

DIAGNOSTICS LED

23
BATT+
BATT−
1/V IN
SIGNAL GND
EARTH
1V /A OUT
ENABLE

CON 3
TxD
GND
RxD
21

POWER SUPPLY (9 TO 32V)
BATT+
BATT−

COMMAND SIGNAL SOURCE
VOLT / 4-20mA
GND

ALARM OUTPUT WHEN IN+ > 3.5V (USE THRESHOLD TRIP RELAY)
IN+
GND

DIGITAL VOLTMETER (MONITORING SOLENOIDS CURRENT)
IN+
IN−

CONTACT CLOSURE TO ENABLE

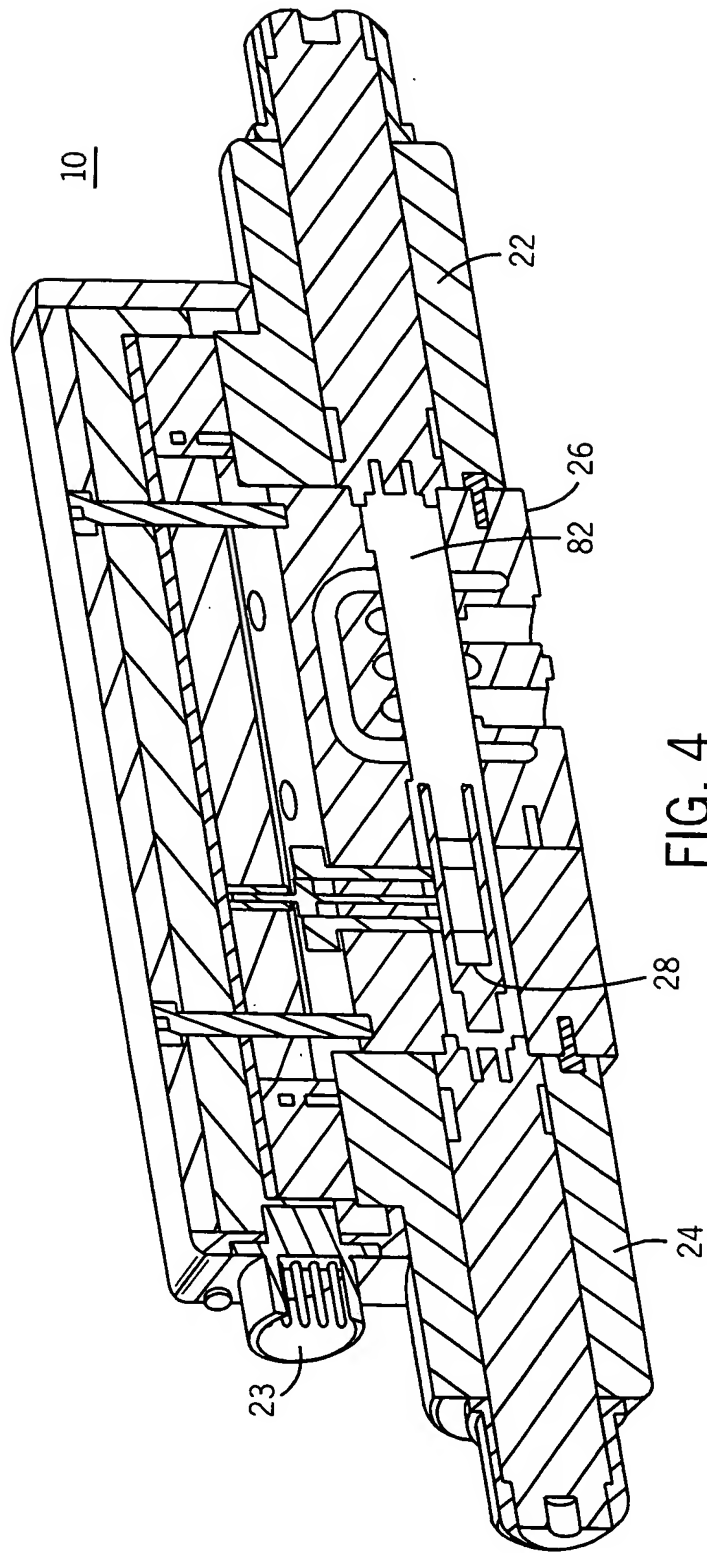SETUP DEVICE (COMPUTER OR HAND-HELD)
TxD
RS-232 GND
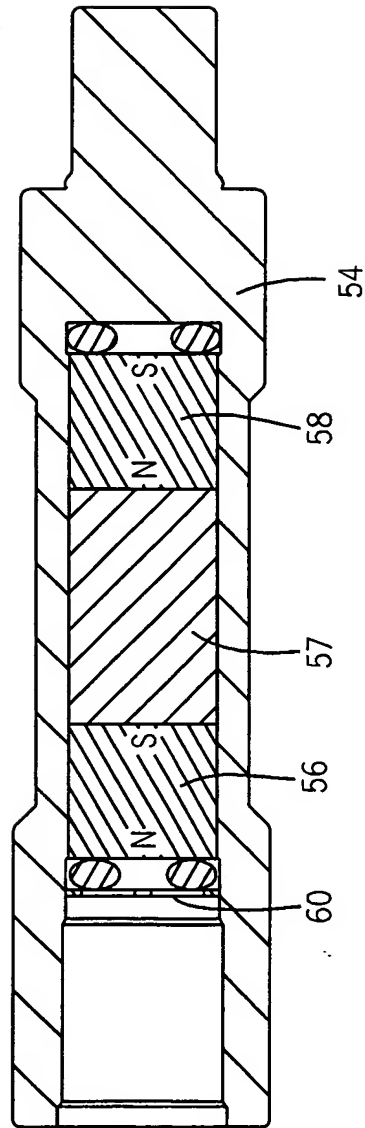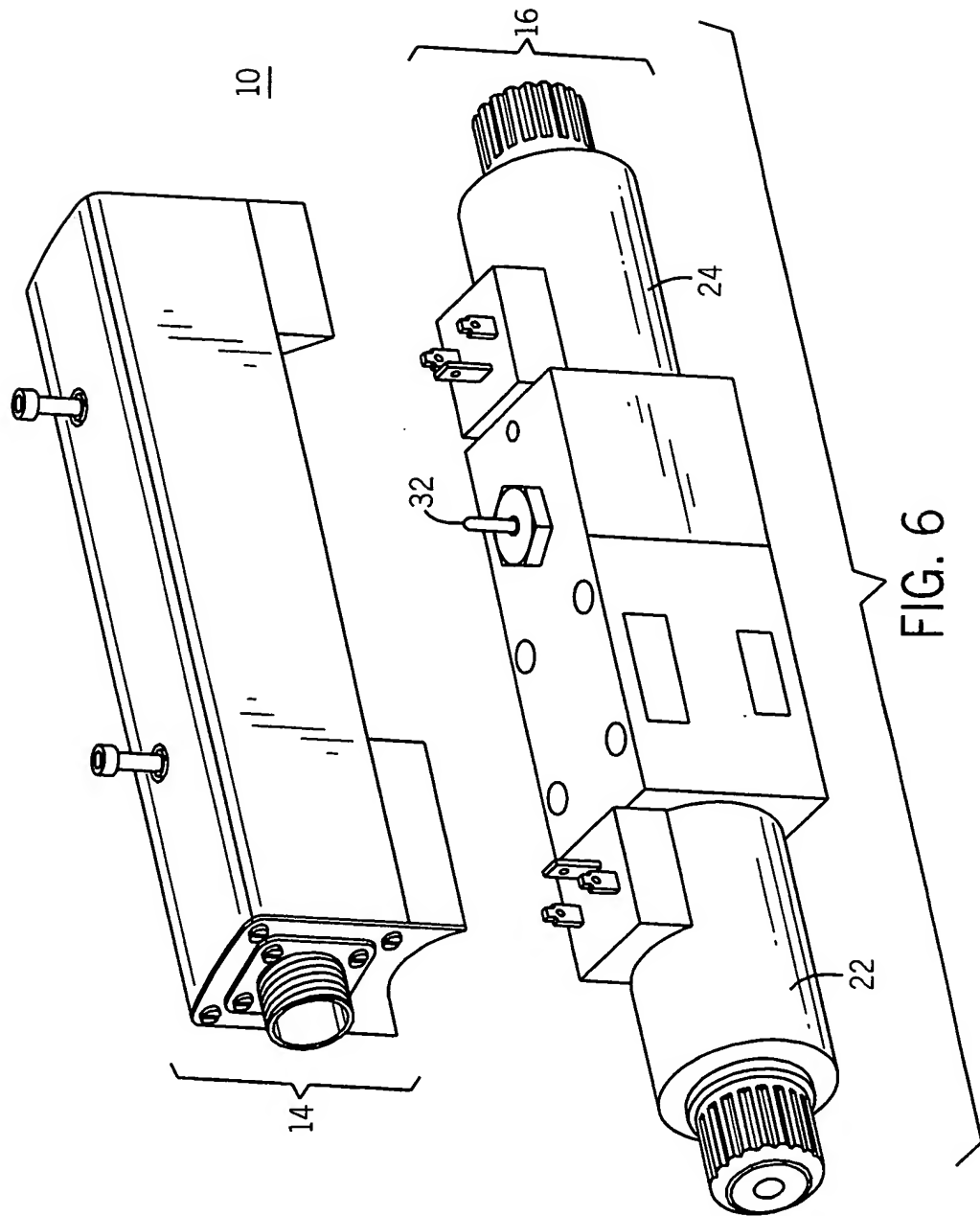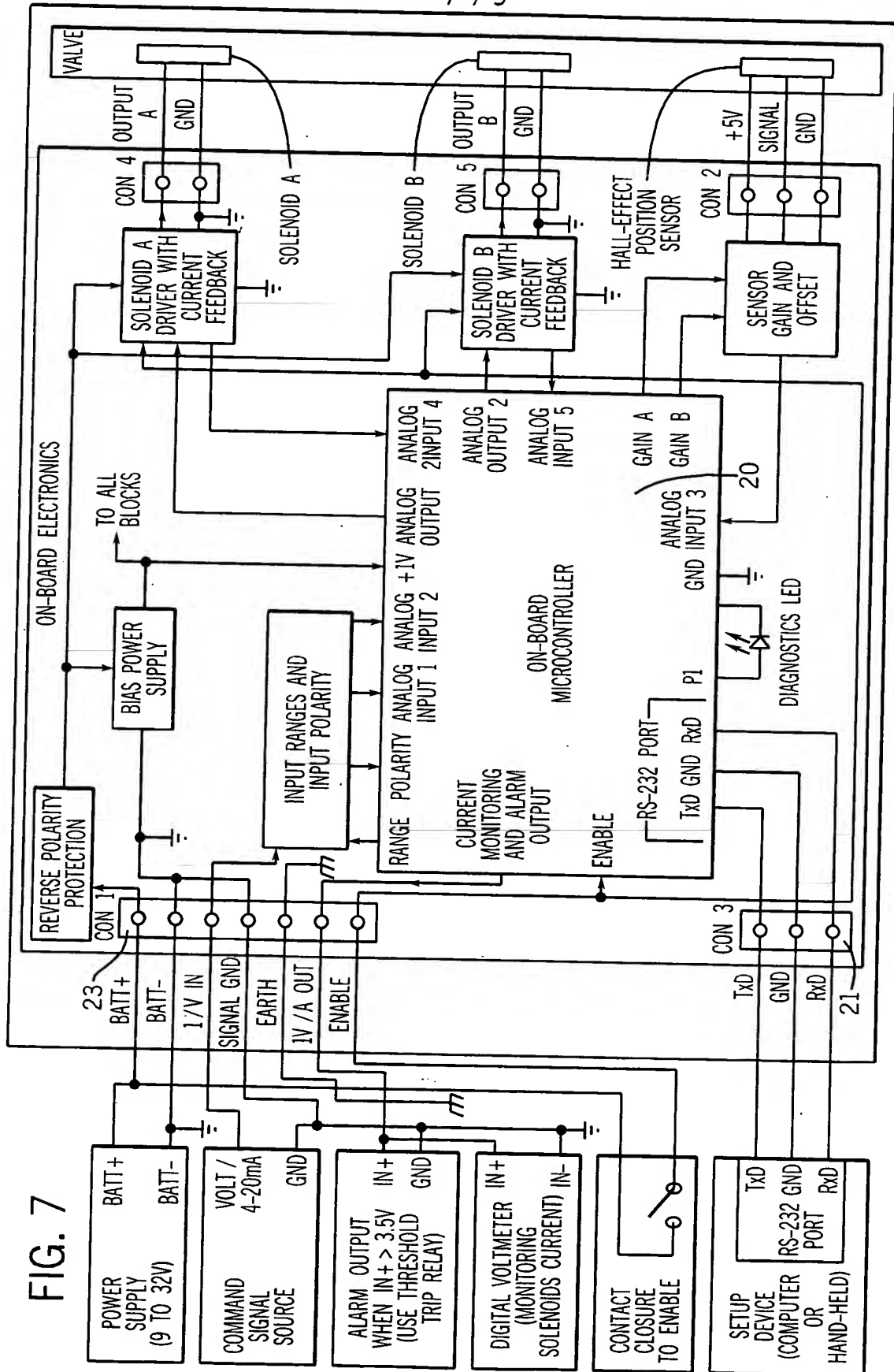PORT RxD

VALVE SETUP

MACHINE / VALVE ID
[                    ]

COIL VOLTAGE  O 12VOLT  ◉ 24VOLT

COMMAND INPUT
◉ +/−10v
O +/−5v
O 4−20mA

A SOLENOID ☐ ON
B SOLENOID ☐ ON

---

NULL
A SOLENOID [        ] mA ⊞ ⊟
B SOLENOID [        ] mA ⊞ ⊟

---

GAIN
A SOLENOID [        ] mA ⊞ ⊟
B SOLENOID [        ] mA ⊞ ⊟

---

ACCEL
A SOLENOID [        ] SEC ⊞ ⊟
B SOLENOID [        ] SEC ⊞ ⊟

---

DECEL
A SOLENOID [        ] SEC ⊞ ⊟
B SOLENOID [        ] SEC ⊞ ⊟

---

DITHER (0−360Hz)
[        ] Hz ⊞ ⊟

---

SET ALL VALUES BEFORE WRITE

[WRITE]

FIG. 8

DISPLAY

CHANGE POSITION LIMITS
FACTORY SET / PASSWORD PROTECTED

STORE SETUP DATA

FIG. 9